L Number	Hits	Search Text	DB	Time stamp
1	2045	machine near2 learn$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:09
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9	4	(multiple near (choice near quer$4)) and internet	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:08
8	8	multiple near (choice near quer$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:09
10	0	(machine near2 learn$4) and (multiple near (choice near quer$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:09
11	1794	machine near learn$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:09
12	851	(machine near learn$4) and train$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:04
13	192	((voice or handwrit$4 or speech) near2 recogn$8) and ((machine near learn$4) and train$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:19
14	185304	reliab$6 and weight$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:11

15	58465	reliab$6 and weight$6 and response	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:18
16	50	(((voice or handwrit$4 or speech) near2 recogn$8) and ((machine near learn$4) and train$6)) and (reliab$6 and weight$6 and response)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:12
17	28	((((voice or handwrit$4 or speech) near2 recogn$8) and ((machine near learn$4) and train$6)) and (reliab$6 and weight$6 and response)) and internet	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:19
18	229	(machine near learn$4) and (reliab$6 and weight$6 and response)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:18
19	131	(((voice or handwrit$4 or speech) near2 recogn$8) and ((machine near learn$4) and train$6)) and database	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:20
20	67	((((voice or handwrit$4 or speech) near2 recogn$8) and ((machine near learn$4) and train$6)) and database) and internet	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:20
21	121	((((voice or handwrit$4 or speech) near2 recogn$8) and ((machine near learn$4) and train$6)) and database) and (internet or network$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:22
22	411376	rul$6 or question or quer$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:05
23	115	(((((voice or handwrit$4 or speech) near2 recogn$8) and ((machine near learn$4) and train$6)) and database) and (internet or network$4)) and (rul$6 or question or quer$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:26
24	7824	train$6 near (process or procedure or method)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:26
25	59	((((((voice or handwrit$4 or speech) near2 recogn$8) and ((machine near learn$4) and train$6)) and database) and (internet or network$4)) and (rul$6 or question or quer$6)) and (train$6 near (process or procedure or method))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 15:26
26	1230	((voice or speech or speak or spok$4) and handwrit$4) near2 recogn$8	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:04
27	939	(machine near2 learn$4) and train$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:05
28	28	(((voice or speech or speak or spok$4) and handwrit$4) near2 recogn$8) and ((machine near2 learn$4) and train$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:10

29	35065	(rul$6 and (question or quer$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:06
30	15	(reliab$6 and weight$6 and response) and ((((voice or speech or speak or spok$4) and handwrit$4) near2 recogn$8) and ((machine near2 learn$4) and train$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:06
31	13	((((voice or speech or speak or spok$4) and handwrit$4) near2 recogn$8) and ((machine near2 learn$4) and train$6)) not ((reliab$6 and weight$6 and response) and ((((voice or speech or speak or spok$4) and handwrit$4) near2 recogn$8) and ((machine near2 learn$4) and train$6)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 16:10
-	201	(706/10).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/06/25 19:19
-	1231	machine near learn$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 14:53
-	37511	quer$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 14:54
-	33111	train$4 and network	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/24 17:16
-	49673	(voice or handwrit$4) and recogni$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 14:53
-	1298	(voice and handwrit$4) and recogni$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/06/25 19:21
-	215114	weight and response	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/07 14:54
-	199	(machine near learn$4) and quer$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/06/25 19:22
-	96	((machine near learn$4) and quer$4) and (train$4 and network)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/06/25 19:26
-	0	(weight and response) and (((voice and handwrit$4) and recogni$6) and (((machine near learn$4) and quer$4) and (train$4 and network)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/06/25 19:22

-	5	((voice and handwrit$4) and recogni$6) and (((machine near learn$4) and quer$4) and (train$4 and network))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/06/25 19:22
-	91	(((machine near learn$4) and quer$4) and (train$4 and network)) not (((voice and handwrit$4) and recogni$6) and (((machine near learn$4) and quer$4) and (train$4 and network)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/06/26 12:02
-	436	(706/45).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/06/26 12:03
-	177	(706/50).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/06/26 12:03
-	1485	machine near learn$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/21 12:40
-	5884	train$4 and quer$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/21 12:41
-	194	(machine near learn$4) and (train$4 and quer$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/21 12:41
-	117	((machine near learn$4) and (train$4 and quer$4)) and recognition	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/21 12:42
-	1495	machine near learn$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/24 17:16
-	4238	train$4 and network and quer$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/24 17:16
-	176	(machine near learn$4) and (train$4 and network and quer$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/24 17:37
-	129	((machine near learn$4) and (train$4 and network and quer$4)) and response	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/24 17:37
-	82	(((machine near learn$4) and (train$4 and network and quer$4)) and response) and recognition	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/24 17:37

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Fusion Engineering, 2002. 19th Symposium on , 21-25 Jan. 2002
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[Abstract] [PDF Full-Text (355 KB)] **IEEE CNF**

2 **An architecture supporting the collection and monitoring of data openly contributed over the World Wide Web**
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Enabling Technologies: Infrastructure for Collaborative Enterprises, 2001. WET ICE 2001. Proceedings. Tenth IEEE International Workshops on , 20-22 June 2001
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[Abstract] [PDF Full-Text (392 KB)] **IEEE CNF**

3 **Block color quantization: a new method for color halftoning**
Gupta, M.; Gormish, M.; Stork, D.G.;
Image Processing, 2000. Proceedings. 2000 International Conference on , Volume: 3 , 10-13 Sept. 2000
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4 **Character and document research in the Open Mind Initiative**
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[Abstract] [PDF Full-Text (856 KB)] **IEEE JNL**

6 **JET engineering development towards D-T operations in an ITER-like machine configuration**
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7 **Pruning Boltzmann networks and hidden Markov models**
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9 **Automatic speech recognition system using acoustic and visual signals**
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10 **Optimizing bit-plane context-dependent entropy coding for palettized images**
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11 **Using deformable templates to infer visual speech dynamics**
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12 **A Digital Neural Network VLSI With On-chip Learning Using Stochastic Pulse Encoding**
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14 **Precision analysis of stochastic pulse encoding algorithms for neural networks**
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15 **Neural network lipreading system for improved speech recognition**
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Using Deformable Templates to Infer Visual Speech Dynamics

Marcus E. Hennecke, K. Venkatesh Prasad, David G. Stork

Abstract: The visual image of a talker provides information complementary to the acoustic speech waveform, and enables improved recognition accuracy, especially in environments corrupted by high acoustic noise or multiple talkers. Because most of the phonologically relevant visual information is from the mouth and lips, it is important to infer accurately and robustly their dynamics; moreover it is desirable to extract this information without the use of invasive markers or patterned illumination. We... (Update)

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1052 Snakes: Active contour models (context) - Kass, Witkin et al. - 1988
211 Feature extraction from faces using deformable templates (context) - Yuille, Cohen et al. - 1989
36 Neural network lipreading system for improved speech recogni.. (context) - Stork, Wolff et al. - 1992
29 An improved automatic lipreading system to enhance speech re.. (context) - Petajan, Bischoff et al. - 1988
25 Lip reading: Automatic visual recognition of spoken words (context) - Pentland, Mase - 1989
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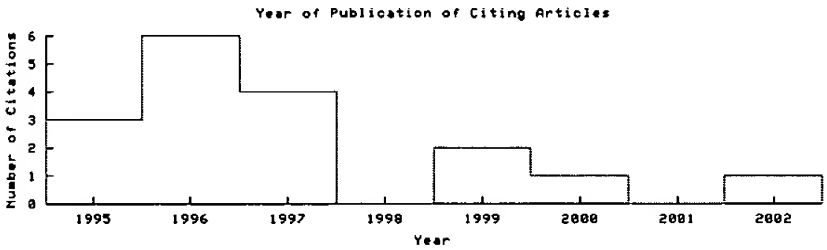
8 Lipreading by neural networks: Visual preprocessing, learnin.. (context) - Wolff, Prasad et al. - 1994



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Prasad, K., Stork, D., and Wolff, G., "*Preprocessing video images for neural learning of lipreading*," Technical Report CRCTR -9326, Ricoh California Research Center, September 1993.

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www.cs.berkeley.edu/~bregler/icassp94_bregler_konig.ps.gz

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Marcus E. Hennecke K. Venkatesh Prasad David G. **Stork** Dept. of Electrical Engineering Ricoh California marcush@leland.stanford.edu prasad@crc.ricoh.com **stork**@crc.ricoh.com Abstract The visual image of a acoustic speech waveform, and enables improved **recognition** accuracy, especially in environments corrupted
ftp.crc.ricoh.com/pub/LipTechRep/asilomar1994.ps.gz

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i.e.lip-reading,orspeech-reading #Petajan, 1984 **Stork** and Hennecke, 1996#In many cases, and community wish list #Chibelushi et al.1996 **Stork** and Hennecke, 1996#In this paper we describe Labs#Research for the study of bimodal speech **recognition**. To date, this database consists of
www.research.ibm.com/AVSTG/AVSP97_DATABASE.pdf

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www.research.att.com/~makis/paper_AVSP_97.ps

Fast Matching of a Dynamic Lip Model to Color Video Sequences.. - Vogt (1996) (Correct) (7 citations)
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tink.boltz.cs.cmu.edu/papers/multimodal/95.aij.ps.gz

Lip Modeling for Visual Speech Recognition - Ram Rao (1994) (Correct) (6 citations)
acoustic noise. Work by Finn and Montgomery [1] and **Stork**, Wolff, and Levine [2] has shown that the feature extraction has been proposed by Prasad, **Stork** and Wolff [3]In this paper, we will outline a

Lip Modeling for Visual Speech **Recognition** Ram R. Rao Russell M. Mersereau School of
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An Interface for Melody Input - Prechelt, Typke (1998) (Correct) (1 citation)
by using additional techniques like lip-reading [**Stork** and Hennecke 1996] have been under way for some
of Artificial Intelligence Tools 6, 2, 193-209. **Stork**, D. G. and Hennecke, M. E. 1996. Speechreading:
a database of approximately 10,000 motifs. Tune **recognition** is based on a highly error-resistant encoding,
wwwipd.ira.uka.de/~prechelt/Biblio/Biblio/tuneserver_tochi2001.ps.gz

Preprocessing Video Images for Neural Learning of Lipreading - Venkatesh Prasad (Correct) (5 citations)
of lipreading K. Venkatesh Prasad, David G. **Stork**, Gregory J. Wolff Machine Learning and
We build upon the basic architectural recognizer of **Stork**, Wolff and Levine [8]but extend it to grayscale
both visual and acoustic information for speech **recognition**, the visual features employed are sufficiently
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is more similar to the experiments of Keesing and **Stork** [3] than the Hinton and Nowlan experiment [2]
given a task with finite difficulty. Keesing and **Stork** [3] demonstrated a similar effect with a neural
and thereby lead to their elimination. Antigen **recognition** is essentially a form of template
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system of **recognition**. Bimber, Encarnacao, and **Stork** created a multilayer architecture for sketch
for sketch **recognition** (Bimber, Encarnacao, **Stork** 2000) of three-dimensional sketches. Their system
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Efficient Evaluation of Classification and Recognition Systems - Micheals, Boult (2001) (Correct)
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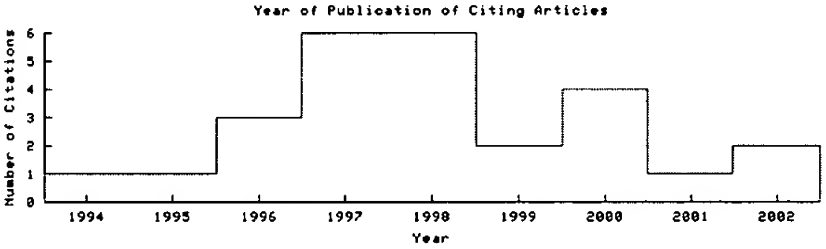

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